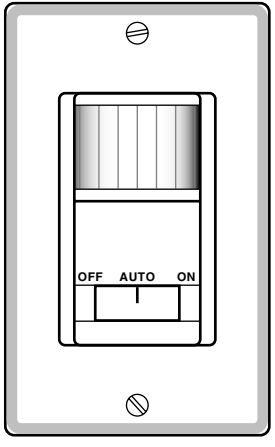
Single Pole Motion Sensing Switch



The Single Pole Motion Sensing Switch detects motion to turn on lights for an adjustable amount of time. A built-in photo cell can be set to keep lights off when the lights aren't needed. The unit has excellent sensitivity and a wide 150° detection range. It can be used with incandescent lighting as well as rapid start fluorescent lighting.

Installation is as easy as replacing a wall switch. However, some codes require installation by a qualified electrician.

Features include:
- 150° motion detection angle.
- Adjustable on-time from 5 sec. to 20 min.
- Adjustable photocell.
- Works with incandescent and rapid start fluorescent lighting.
- Works with motors up to 1/8 hp.
- Slide switch selectable OFF, ON AND AUTO modes.

Included are: • The sensor switch • Cover plate • 3 wire connectors • 2 large screws • 2 small screws.

INSTALLATION

⚠ WARNING: For indoor use only.

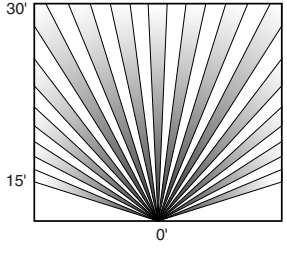
SELECT A LOCATION

NEW APPLICATION

Choose a location where the motion sensor has a clear view of the entire area where occupant motion may occur.

RETROFIT APPLICATION

Motion sensing switch will replace existing wall switch. Use only where the existing switch location provides a clear view of the occupied area.



Typical Plan View of Coverage

GENERAL APPLICATION INFORMATION

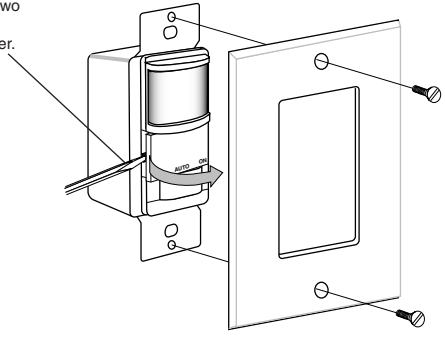
The detector is more sensitive to motion across the front of the sensor than to motion towards the sensor.

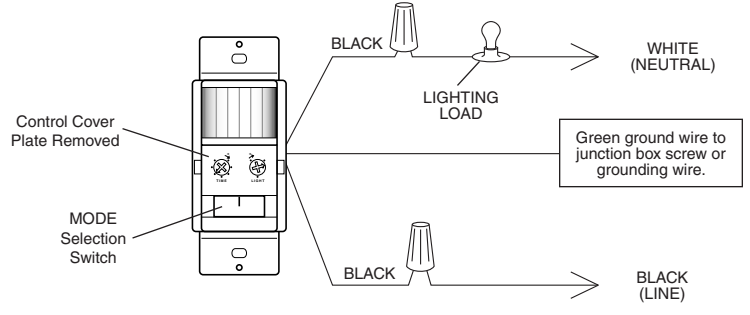
The detector senses heat in motion and possible heat sources that change temperature quickly. Therefore, to avoid false triggering, avoid placing the sensor where it will be aimed at air conditioners, heaters, and other sources of heat or cold.

INSTALLING THE SWITCH

⚠ WARNING: Turn power off at the circuit breaker before wiring.

- Remove the decorative coverplate (secured by two screws).
- Remove Control Cover. (Press in with screwdriver. Swing out cover to remove.)
- Remove the existing switch (if this is a retrofit application).
- Connect the detector as shown in the diagram. Before installing the detector into the box, make sure there is no wire exposed at the connection.





TYPICAL INSTALLATION

- Mount the detector into the wall box with the mounting screws.
- For test purposes, use a small screwdriver to turn the time control fully counter-clockwise and the light control fully clockwise. Turn the power back on at the circuit breaker.
- Set the switch to the AUTO mode. When unit stabilizes (about 1 minute), the sensor is ready to detect motion. If motion is detected, the lights will turn on. The lights will turn off 5 seconds after motion is no longer detected.

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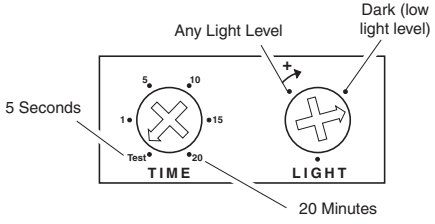
ADJUSTMENTS

TIME

There are 6 preset selections for the amount of time the lights stay on: Test (5 seconds), 1, 5, 10, 15, and 20 minutes. Use a small, phillips screw driver to adjust the TIME control (see Figure 4). Turn the TIME control until it "snaps" into the desired time position.

LIGHT LEVEL

The sensor can be prevented from turning on lights when there is already enough light in the room. Use a small phillips screw driver to set the light level using this diagram as a guide. In the fully clockwise position, the sensor turns on lights even in full daylight. In the fully counter-clockwise position, the sensor only turns on lights when the surrounding light level is very low.



To adjust the photocell:

- When the light in the room is at the level you want the lights to turn on, set the switch to the AUTO position.
- Put the TIME control to the 5 second position.
- Put the LIGHT control to the minimum dark (fully counter-clockwise) position. Wait for the lights to turn off.
- Turn the LIGHT adjustment clockwise in very small steps and wait 2 seconds before moving your hand in front of the sensor. Repeat until the lights controlled by the sensor come on. The light will now come on when the light level is at or below the present level and motion is detected.

Complete Installation

- Replace control panel cover and install the decorative wall plate. In installations where the GE motion sensor switch is combined with other switches or outlets on an expanded box, a combination wall plate will need to be purchased. Various combination wall plates are available at Home Centers and Electrical Supply Stores.
- Slide the switch a couple of times to make sure it operates freely.

USE

MODE Selection Switch

Moving the switch selects one of three modes of operation: OFF, AUTO, ON

OFF: Lights stay off.

AUTO: Lights come on for time set when motion is detected and the light level is below the set level.

ON: Lights stay on continuously.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE
Light does not come on.	1. Circuit breaker or fuse is turned off. 2. If the lamp being controlled has another switch, it may be turned off. 3. Bulb is defective. 4. LIGHT control is set too far toward the DARK position. 5. MODE switch is set to OFF instead of AUTO. 6. Poor connection.
Lights do not stay on in the Auto mode.	1. Motion has stopped in the room. 2. TIME control is set for too short a delay.

SYMPTOM	POSSIBLE CAUSE
Light does not turn off.	1. Incorrect wiring. 2. MODE switch is set to ON instead of AUTO. 3. Motion is still present. 4. Delay set by TIME control has not expired.
Light comes on for no reason in the Auto mode.	1. Heating or cooling objects (such as air vents, appliances, or drafts through the wall box) are causing false triggering. 2. Switch on the sensor has been turned off and back on. 3. There was a momentary power interruption. The light will turn off automatically when the "on" time expires.

SPECIFICATIONS

Electrical input.....120V, 60 Hz
Fluorescent Load.....(2 tube minimum) 30 Watt minimum 400 Watt maximum Rapid Start
Motor Load.....1/8 HP maximum
Incandescent.....500W maximum
On-Time.....Adjustable approximately 5 sec. to 20 min.
Photocell Sensor.....From full daylight to less than 1 FC.
Coverage.....up to 15 ft. at 150°, up to 30 ft. in front of the sensor

⚠ WARNING

Risk of electric shock

- Shut off power at fuse box or circuit breaker before installation
- Use indoors only

Risk of fire

- Do not exceed electrical ratings